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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/806,030	03/26/2001	Yuji Iguchi	010148	3374
23850	7590 06/20/2002			
ARMSTRONG,WESTERMAN & HATTORI, LLP 1725 K STREET, NW. SUITE 1000			EXAMINER	
			SHEWAREGED, BETELHEM	
WASHINGT	WASHINGTON, DC 20006		ART UNIT	PAPER NUMBER
			1774	(/
			DATE MAILED: 06/20/2002	7

Please find below and/or attached an Office communication concerning this application or proceeding.

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• •	Applicati n N .	Applicant(s)				
Office Action Summary	09/806,030	IGUCHI ET AL.				
Office Action Summary	Examin r	Art Unit				
The MAILING DATE of this communication and	Betelhem Shewareged	1774				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
1) Responsive to communication(s) filed on 26 №	10roh 2001					
	s action is non-final.					
, <u> </u>		osecution as to the merits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-11 is/are pending in the application.						
4a) Of the above claim(s) <u>12</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accep	•					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 1/2. 	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

DETAILED ACTION

Election/Restrictions

- 1. Restriction is required under 35 U.S.C. 121 and 372.
- 2. This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.
- 3. In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-11, drawn to recording sheet.

Group II, claim(s) 12, drawn to method of making.

- 4. The inventions listed as Groups I and I do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Where a group of inventions is claimed in an application, the requirement of unity of invention shall be fulfilled only when there is a *special technical relationship* among those inventions involving one or more of the same or corresponding technical features which define a contribution over the prior art. See 37 CFR 1.475. The special technical feature of the present invention --an ink receiving layer applied on a fabric support-- does not define a contribution over the prior art, as is revealed by Nitta (US 6,028,028) on (col. 3, line 39). Consequently, a lack of unity of invention exists. See 37 CFR 1.475 and MPEP 1850.
- 5. During a telephone conversation with Stephen G. Adrian on 06/05/2002 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-11. Affirmation of this election must be made by applicant in replying to this

Office action. Claim 12 is withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the first paragraph of 35 U.S.C. 112:

 The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 8. The specification is objected to under 35 U.S.C. § 112, first paragraph, as failing to provide an adequate written description of the invention. The applicant has failed to incorporate a foreign test standard in the specification.
- 9. The incorporation of essential material by reference to a foreign application or foreign patent or to a publication inserted in the specification is improper. Applicant is required to amend the disclosure to include the material incorporated by reference. The amendment must be accompanied by an affidavit or declaration executed by the applicant, or applicants attorney or agent, stating that the amendatory material consists of the same application. *In re Hawkins*, 486 F.2d 569, 179 USPQ 157; *In re Hawkins*, 486 F.2d 569, 179 USPQ 167.

10. In order to avoid a 35 U.S.C. § 112, first paragraph rejection when the applicant attempts to incorporate a foreign test standard in the specification (see page 4, lines 6 and 12), it is recommended that the applicant further incorporates the standard in the specification or submit an English translation of the standard.

11. Claims 1-11 are rejected under 35 U.S.C. § 112, first paragraph, for the reasons set forth in the objection to the specification.

Claim Rejections - 35 USC § 102

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 13. Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Nitta (US 6,028,028).

Nitta disclosed an ink jet recording sheet comprising a support, a stretched resin film, and an image receiving layer in the order thereof (col. 3, line 39). The support is a plane weave fabric having threads denier of 40-150 (col. 3, line 45) in which the denier overlaps with the claimed yarn diameter. The stretched resin film comprises a thermoplastic resin film containing inorganic fillers (col. 6, line 9). The claimed pigment layer is equivalent to the stretched resin film. The image receiving layer comprises

inorganic pigment such as silica, and water-based adhesive such as polyvinyl alcohol. With respect to the surface roughness and surface glossiness of the ink receiving layer, it is elementary that the mere recitation of newly discovered function or property, inherently possessed by things in the prior art, does not cause a claim drawn to those things to distinguish over the prior art. *In re swinehart et al.*, 169 USPQ 226 at 229. Since the Nitta reference teaches all of Applicant's claimed compositional and positional limitations, it is inherent that the reference article functions in the same manner claimed by Applicant. The burden is upon Applicant to prove that the subject matter shown to be in the prior art does not possess the characteristic relied on.

Claim Rejections - 35 USC § 103

- 14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 15. Claims 6-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nitta (US 6,028,028) in view of DeMatte et al. (US 5,985,424) and Aerosil/Degussa Website.

Nitta disclosed an ink jet recording sheet comprising a support, a stretched resin film, and an image receiving layer in the order thereof (col. 3, line 39). The support is a plane weave fabric having threads denier of 40-150 (col. 3, line 45) in which the denier overlaps with the claimed yarn diameter. The stretched resin film comprises a thermoplastic resin film containing inorganic fillers (col. 6, line 9). The claimed pigment

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layer is equivalent to the stretched resin film. The image receiving layer comprises inorganic pigment such as silica, and water-based adhesive such as polyvinyl alcohol. With respect to the surface roughness and surface glossiness of the ink receiving layer, it is elementary that the mere recitation of newly discovered function or property, inherently possessed by things in the prior art, does not cause a claim drawn to those things to distinguish over the prior art. *In re swinehart et al.*, 169 USPQ 226 at 229. Since the Nitta reference teaches all of Applicant's claimed compositional and positional limitations, it is inherent that the reference article functions in the same manner claimed by Applicant. The burden is upon Applicant to prove that the subject matter shown to be in the prior art does not possess the characteristic relied on.

Nitta does not disclose a gas phase method or fumed silica having the claimed particle size and BET surface area.

DeMatte teaches an ink jet recording layer comprising a basestock, a base coat having pigments (col. 3, line 15), and an ink receiving layer in the order thereof (col. 2, line 54). The claimed pigment layer is equivalent to the base coat layer. The ink receiving layer contains a binder and a fumed silica having a BET surface area of 140-200 m²/g and a particle size of 15 nm (see AEROSIL datasheet).

Nitta and DeMatte are analogous arts because they are from the same field of endeavor that is the ink jet recording medium art. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the fumed silica of DeMatte with the ink jet recording sheet of Nitta so as to control the ink absorption.

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Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betelhem Shewareged whose telephone number is 703-305-0389. The examiner can normally be reached on Mon.-Thur. 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia H Kelly can be reached on 703-308-0449. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-5408 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

> CYNTHIA H. KELLY SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 1700**

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June 16, 2002.

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